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- 7. The composition of claim 1, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value in a range of about 9.2 to 9.4.
- **8**. The composition of claim **1**, wherein said water is de-ionized water filtered by reverse osmosis.
- 9. The composition of claim 1, wherein said water is distilled water
- 10. The composition of claim 1, wherein said food grade acidulent is selected from the group consisting of phosphoric acid, citric acid, malic acid and acetic acid.
- 11. The composition of claim 1, wherein said food grade acidulent is distilled vinegar.
- 12. The composition of claim 1, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said 15 composition is less than about 5 ppm.
- 13. The composition of claim 1, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 2 ppm.
- 14. The composition of claim 1, wherein a dissolved oxygen content of said composition is less than about 1 ppm.
- 15. A method for reducing odors emanating from animal discharges, comprising the steps of applying a dosage of said composition of claim 1 to food rations in an amount effective 25 to reduce odors and feeding said food rations to an animal.
- 16. The method of claim 15, wherein said dosage is applied using application means delivering about 0.05 ounces per application  $(0.14 \times 10^{-5} \text{ m}^3 \text{ per application})$ .
- 17. The method of claim 15, wherein said dosage is about 30 one ounce per week  $(2.96 \times 10^{-5} \text{ m}^3 \text{ per week})$ .
- 18. A process for manufacturing a composition for reducing odors emanating from animal discharges, said process comprising the steps of:
  - (a) providing water with a calcium carbonate content less <sup>35</sup> than about 1000 ppm;
  - (b) adding chlorine dioxide to said water in an amount less than about 0.5% by weight; and
  - (c) adding a food grade acidulent to said water in sufficient quantity to adjust the pH of the composition to a value greater than about 7.
- 19. The process of claim 18, wherein said water has a calcium carbonate content less than about 500 ppm.
- 20. The process of claim 18, wherein said water has a calcium carbonate content less than about 300 ppm.  $^{45}$
- 21. The process of claim 18, wherein said chlorine dioxide is present at less than about 0.1% by weight.
- 22. The process of claim 18, wherein said chlorine dioxide is present in a range of about 0.01% to 0.1% by weight.
- 23. The process of claim 18, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value greater than about 9.
- 24. The process of claim 18, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value in a range of about 9.2 to 9.4.
- 25. The process of claim 18, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 5 ppm.
- 26. The process of claim 18, wherein said source of chlorine dioxide and said food grade acidulent are added to

- said water, such that a dissolved oxygen content of said composition is less than about 2 ppm.
- 27. The process of claim 18, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 1 ppm.
- 28. The process of claim 18, wherein said water is de-ionized water filtered by reverse osmosis.
- 29. The process of claim 18, wherein said water is distilled water.
- **30**. The process of claim **18**, wherein said food grade acidulent is selected from the group consisting of phosphoric acid, citric acid, malic acid, and acetic acid.
- 31. The process of claim 18, wherein said food grade acidulent is distilled vinegar.
- **32.** A product for reducing odors emanating from animal discharges, comprising a composition including:
  - (a) water with a calcium carbonate content less than about 1000 ppm;
  - (b) chlorine dioxide in an amount less than about 0.5% by weight; and
  - (c) a food grade acidulent in sufficient quantity to adjust the pH of the composition to greater than about 7;
  - disposed in a container which comprises a material that blocks the transmission of ultraviolet radiation.
- 33. The product of claim 32, wherein said water has a calcium carbonate content less than about 500 ppm.
- 34. The product of claim 32, wherein said water has a calcium carbonate content less than about 300 ppm.
- 35. The product of claim 32, wherein said chlorine dioxide is present at less than about 0.1% by weight.
- **36.** The product of claim **32**, wherein said chlorine dioxide is present in a range of about 0.01% to 0.1% by weight.
- 37. The product of claim 32, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value greater than about 9.
- **38**. The product of claim **32**, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value in a range of about 9.2 to 9.4.
- **39.** The product of claim **32,** wherein said chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 5 ppm.
- **40**. The product of claim **32**, wherein said chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 2 ppm.
- 41. The product of claim 32, wherein said chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 1 ppm.
- 42. The product of claim 32, further comprising application means for applying measured amounts of said composition to animal food rations.
- **43**. The product of claim **42**, wherein said application means is a spray applicator.
- 44. The product of claim 43, wherein said spray applicator applies a dosage of about 0.05 ounces per spray  $(0.14 \times 10^{-5} \text{ m}^3 \text{ per spray})$ .

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